Degreasing Operation

1. Type of degreasers:

This form applies to cleaners that spray, immerse, or flood the greasy part with a solvent. Manual or mechanical agitation is often part of the process, and despite the name, the solvent may be heated to improve cleaning.

2. Identification:

Provide the name or number by which the cold cleaner is known in the plant.

3. Solvent used:

Indicate the name of the solvent used. Attach a MSDS sheet for the solvent. The solvent will be assumed to be 100% volatile organic compounds unless an analysis of the solvent is also included.

4. Daily solvent consumption:

Indicate the volume of solvent added per day, less the volume recycled or disposed of as a liquid, in gallons per day. For new cleaners with no consumption history, data from a similar cleaner may be used. If you cannot provide a valid answer, indicate unknown (UNK) and OAM will estimate cleaner emissions.

5. Solvent density:

The solvent density in pounds per gallon.

6. Solvent temperature as used:

Indicate the temperature of the solvent when in contact with the parts, expressed in degrees fahrenheit.

7. Solvent vapor pressure at 100EF:

The tested vapor pressure of the solvent measured at 100EF, expressed in pounds per square inch-absolute.

A. Cold Cleaner

1. **Agitation method:**

Means by which surface of parts are agitated. Common methods are manual brushing, wiping, spraying, or mechanical vibration.

2. **Drainage time:**

The minimum period of time that parts are allowed to drain after cleaning and before removal of parts from cleaner.

3. **VOC emission control method used:**

Method used to mitigate evaporation of solvent.

B. Open Top Degreaser

1. **Freeboard ratio:**

Indicate the freeboard ratio of the degreaser. Freeboard ratio is the ratio of the freeboard height (distance from top of liquid to degreaser rim) to the width of the degreaser. For example, if a degreaser is four (4) feet wide by eight (8) feet long by six (6) feet high with a liquid solvent level maintained at a depth of two (2) feet. The freeboard height is: six (6) feet minus two (2) feet equals four (4) feet. The freeboard height (4 feet) divided by the width (4 feet) is 1.00 or 100%.

2. **Condenser operating temperature:**
Fill in the maximum condenser coolant temperature in degrees fahrenheit.

3. **Maximum work velocity:**
Indicate the maximum speed that the work will move out of the vapor space, expressed in feet per second.

4. **Degreasing time:**
The maximum amount of time the work will remain in the vapor space, expressed in seconds.

5. **Drying time:**
The maximum amount of time the work will be allowed to dry, expressed in seconds.

6. **Material being degreased:**
All work materials being degreased (i.e., steel, aluminum, leather, etc.). If necessary, attach additional sheets.

7. **Exhaust ventilation rate:**
The exhaust ventilation rate for the degreaser and all other ventilators within fifty (50) feet of the degreaser, expressed in actual cubic feet per minute.

8. **Interface area:**
Indicate the area where liquid solvent contacts the atmosphere, expressed in square feet.

9. **VOC emission control method used:**
Method used to mitigate escape of solvent vapor into the atmosphere.

C. Conveyorized Degreaser

1. **Solvent phase:**
The solvent phase (liquid or vapor) contacting the work.

2. **Condenser operating temperature:**
The maximum condenser coolant temperature in degrees fahrenheit.

3. **Conveyor speed:**
The maximum speed that work will be conveyed through the conveyor in feet per minute.

4. **Degreasing zone length:**
The length of the degreaser where work is in contact with the solvent.

5. **Material being degreased:**
All work materials being degreased (i.e., steel, aluminum, leather, etc.). If necessary, attach additional sheets.

6. **Exhaust ventilation rate:**
Fill in the exhaust ventilation rate, in actual cubic feet per minute, for the degreaser and all other ventilators within fifty feet of the degreaser.

7. **Maximum tunnel entrance and exit clearance to work being degreased:**
Provide the maximum clearance, in inches, between the tunnel entrance or exit (whichever is larger) and the smallest piece of work that passes through the degreaser. This does not include times no work is entered or exiting the degreaser.